LIBRARY

1.Create a keyspace by name Library

CREATE KEYSPACE library WITH REPLICATION={ 'class' : 'SimpleStrategy', 'replication_factor' : 1}; USE library;

2. Create a column family by name Library-Info with attributes

Stud_Id Primary Key, Counter_value of type Counter, Stud_Name, Book-Name, Book-Id, Date_of_issue

create table library_info(stud_id int, counter_value Counter, stud_name text,book_name text, date_of_issue timestamp, book_id int, PRIMARY KEY(stud_id,stud_name,book_name,date_of_issue,book_id));

3. Insert the values into the table in batch

UPDATE library_info SET counter_value = counter_value + 1 WHERE stud_id = 111 and stud_name = 'SAM' and book_name = 'ML' and

date_of_issue = '2020-10-11'and book_id = 200;
UPDATE library_info SET counter_value =
counter_value + 1 WHERE stud_id = 112 and
stud_name = 'SHAAN' and book_name = 'BDA' and
date_of_issue = '2020-09-21'and book_id = 300;
UPDATE library_info SET counter_value =
counter_value + 1 WHERE stud_id = 113 and
stud_name = 'AYMAN' and book_name = 'OOMD' and
date_of_issue = '2020-04-01'and book_id = 400;
SELECT * FROM library_info;

4. Display the details of the table created and increase the value of the counter

 UPDATE library_info SET counter_value =
counter_value + 1 WHERE stud_id = 112 and
stud_name = 'SHAAN' and book_name = 'BDA' and
date_of_issue = '2020-09-21'and book_id = 300;

5. Write a query to show that a student with id 112 has taken a book "BDA" 2 times.

SELECT * FROM library_info WHERE stud_id = 112;

 6. Export the created column to a csv file

COPY
Library_Info(Stud_Id,Stud_Name,Book_Name,Book_Id,
Date_Of_Issue,Counter_val ue) TO 'e:\libraryInfo.csv';

7. Import a given csv dataset from local file system into Cassandra column family

create table library_info2(stud_id int, counter_value Counter, stud_name text,book_name text, date_of_issue timestamp, book_id int, PRIMARY KEY(stud_id,stud_name,book_name,date_of_issue,book_id)); COPY library_info2(stud_id,stud_name,book_name,book_id, date_of_issue,counter _value) FROM 'e:\libraryInfo.csv'